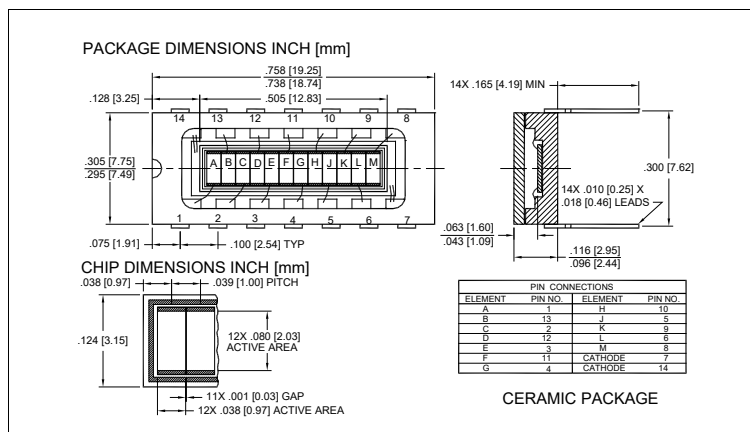
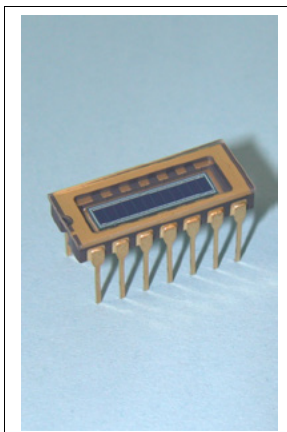


Blue Enhanced Linear Array Silicon Photodiode

SD219-51-03-301

Precision – Control – Results



DESCRIPTION

The **SD 219-51-03-301** is a blue enhanced linear array 12 elements silicon photodiode available in a ceramic package.

FEATURES

- Compact package
- Blue enhanced

RELIABILITY

Contact Luna for recommendations on specific test conditions and procedures.

APPLICATIONS

- Medical
- Industrial



ABSOLUTE MAXIMUM RATINGS

SYMBOL	MIN		MAX	UNITS	
Reverse Voltage			50	V	$T_a = 23^{\circ}\text{C}$ UNLESS OTHERWISE NOTED
Storage Temperature	-40	to	+100	$^{\circ}\text{C}$	-
Operating Temperature	-40	to	+75	$^{\circ}\text{C}$	-
Soldering Temperature*	-	-	+240	$^{\circ}\text{C}$	-

*1/16 inch from case for 3 seconds max.

Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject to change without notice.

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Precision – Control – Results

OPTO-ELECTRICAL PARAMETERS

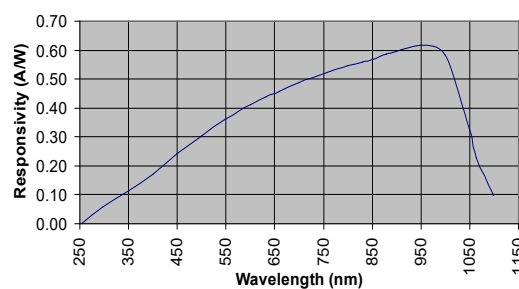
$T_a = 23^\circ\text{C}$ UNLESS OTHERWISE NOTED

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Dark Current	$V_R = 10\text{V}$	-	-	2.7	nA
Shunt Resistance	$V_R = 10\text{ mV}$	600	-	-	$\text{M}\Omega$
Junction Capacitance	$V_R = 0\text{ V}$, $f = 1\text{ MHz}$	-	28	33	pF
Spectral Application Range	Spot Scan	350	-	1100	nm
Breakdown Voltage	$I = 10\mu\text{A}$	-	-	-	V
Noise Equivalent Power	$V_R = 0\text{V}$; $\lambda = \text{Peak}$	-	1.4×10^{-14}	-	$\text{W}/\sqrt{\text{Hz}}$
Response Time**	$R_L = 50\Omega$, $V_R = 0\text{V}$	-	190	-	nS
	$R_L = 50\Omega$, $V_R = 10\text{V}$	-	13	-	

** Response time of 10% to 90% is specified at 660nm wavelength light.

TYPICAL PERFORMANCE

SPECTRAL RESPONSE



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